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This listing of claims replaces all prior versions, and listings of claims in the instant application:

## Listing of Claims:

1. (Previously Presented) A method for processing an application identifier (AID) for an application installed on a smart card, said AID comprising a registered application provider identifier (RID), the method comprising:

determining the RID for the application from the AID of the application;

generating a network resource identifier for a network resource from the RID;

transmitting a request to the network resource using said network resource identifier; and

receiving a response to said request, said response comprising material for use in handling the application on the smart card.

- 2. (Original) The method of claim 1, wherein said network resource identifier comprises a Universal Resource Locator (URL).
- 3. (Original) The method of claim 2, wherein said URL identifies a resource on the Internet.
- 4. (Original) The method of claim 1, wherein said determining the RID comprises extracting the RID from a predetermined location within the AID.
- 5. (Previously Presented) The method of claim 1, wherein said generating a network resource identifier comprises forming the network resource identifier from first and second address portions, wherein said first address portion comprises a

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predetermined value, and said second address portion is dependent upon the determined RID.

- 6. (Original) The method of claim 5, wherein said first address portion corresponds to a network domain, and said second address portion corresponds to one or more input parameters for transmission to the network domain.
- 7. (Original) The method of claim 6, wherein said network resource identifier is generated by combining a first fixed address portion representative of a search site with a second variable address portion dependent upon the determined RID, wherein the second variable address portion forms a search string for input to the search site.
- 8. (Previously Presented) The method of claim 1, wherein said generating the network resource identifier from the RID comprises transforming a binary representation of the RID into a non-binary representation.
- 9. (Original) The method of claim 8, wherein said non-binary representation comprises a string representation.
- 10. (Previously Presented) The method of claim 1, wherein said generating a network resource identifier comprises using a lookup table that maps RID to network resource identifier.
- 11. (Previously Presented) The method of claim 10, wherein said generating a network resource identifier comprises:

accessing a local lookup table that maps selected RIDs to corresponding network resource identifiers, and using a mapping from this local lookup table to generate the network

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resource identifier if the determined RID matches one of the RIDs in the local lookup table; and

if no matching RID in the local lookup table is found, accessing a remote database that maps RIDs to corresponding network resource identifiers, wherein said generated network resource identifier comprises the address of the remote database in combination with the RID to be matched.

- 12. (Original) The method of claim 11, further comprising operating said local lookup table as a cache of the remote database.
- 13. (Original) The method of claim 1, wherein the response to said request comprises or identifies code for use in decoding the AID of the application.
- 14. (Previously Presented) The method of claim 13, further comprising installing said code in a terminal to perform said transaction with the application.
- 15. (Original) The method of claim 1, wherein said network resource identifier represents a fully qualified class name for a class.
- 16. (Original) The method of claim 15, further comprising examining to see if the class is already loaded, and if so, not transmitting said request.
- 17. (Previously Presented) The method of claim 15, further comprising accessing the class in accordance with classpath definitions.
- 18. (Original) The method of claim 13, wherein said code is provided in the form of a Java application descriptor file.

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- 19. (Original) The method of claim 1, wherein the response to said request comprises a URL denoting a service or facility for use in interacting with the application on the smart card.
- 20. (Original) The method of claim 1, wherein the response to said request comprises or identifies contractual material relating to the application on the smart card.
- 21. (Original) The method of claim 1, wherein said request incorporates the AID for the application.
- 22. (Original) The method of claim 21, wherein the response to the request is dependent upon a proprietary application identifier extension (PIX) portion of the AID.
- 23. (Previously Presented) The method of claim 1, further comprising receiving the AID for the application on the smart card at a terminal during a session with said smart card, wherein said determining, said generating, said transmitting, and said receiving a response are performed by said terminal.
- 24. (Previously Presented) The method of claim 23, wherein there are multiple applications on the smart card, each application having its own respective AID which is received on the terminal from the smart card, and wherein said determining the RID, said generating a network resource identifier from the RID, said transmitting a request to said network resource, and said receiving a response, are performed separately for each received AID.
- 25. (Original) The method of claim 24, wherein the responses to the requests received at the terminal for the

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multiple applications are used in determining which of said multiple applications on the smart card is to be used in interacting with the terminal.

- 26. (Previously Presented) Apparatus for processing an application identifier (AID) for an application installed on a smart card, said AID comprising a registered application provider identifier (RID), wherein the apparatus is operable to determine the RID for an application from the AID of the application and to generate a network resource identifier for a network resource from the RID, said apparatus comprising a network interface for transmitting a request to said network resource using said identifier and for receiving a response to said request, wherein said response comprises material for use in handling the application on the smart card.
- 27. (Original) The apparatus of claim 26, wherein the network resource identifier is formed from first and second address portions, wherein said first address portion comprises a predetermined value, and said second address portion is dependent upon the determined RID.
- 28. (Original) The apparatus of claim 27, wherein said first address portion corresponds to a network domain, and said second address portion corresponds to one or more input parameters for transmission to the network domain.
- 29. (Original) The apparatus of claim 27, wherein said network address is formed from a first fixed address portion representative of a search site and a second variable address portion that is dependent upon the determined RID, wherein the second variable address portion represents a search string for input to the search site.

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- 30. (Original) The apparatus of claim 26, wherein the network resource identifier is generated by transforming a binary representation of the RID into a non-binary representation.
- 31. (Original) The apparatus of claim 30, wherein said non-binary representation comprises a string representation.
- 32. (Original) The apparatus of claim 26, further comprising a lookup table that maps RID to network resource identifier.
- 33. (Original) The apparatus of claim 26, wherein the response to said request comprises or identifies code for use in decoding the AID of the application.
- 34. (Original) The apparatus of claim 26, wherein said network resource identifier represents a fully qualified class name for a class.
- 35. (Original) The apparatus of claim 26, wherein said request incorporates the AID for the application.
- 36. (Original) The apparatus of claim 35, wherein the response to the request is dependent upon a proprietary application identifier extension (PIX) portion of the AID.
- 37. (Original) The apparatus of claim 26, wherein there are multiple applications on the smart card, each application having its own respective AID which is received from the smart card, and wherein responses to requests for the multiple applications are used in determining which of said multiple applications on the smart card is to be launched.

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38. (Previously Presented) Apparatus for processing an application identifier (AID) for an application installed on a smart card, said AID comprising a registered application provider identifier (RID), the apparatus comprising:

means for determining the RID for the application from the AID of the application;

means for generating a network resource identifier for a network resource from the RID;

means for transmitting a request to said network resource using said network resource identifier; and means for receiving a response to said request, said response comprising material for use in handling the application on the smart card.

39. (Previously Presented) A computer program product comprising instructions on a medium, wherein said instructions when loaded into a machine cause the machine to process an application identifier (AID) for an application installed on a smart card by:

determining a registered application provider identifier (RID) for the application from the AID of the application, wherein said RID is included in the AID;

generating a network resource identifier for a network resource from the RID;

transmitting a request to said network resource using said network resource identifier; and

receiving a response to said request, said response comprising material for use in handling the application on the smart card.

40. (Original) The computer program product of claim 39, wherein said network resource identifier comprises a Universal Resource Locator (URL).

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- 41. (Original) The computer program product of claim 40, wherein said URL identifies a resource on the Internet.
- 42. (Original) The computer program product of claim 39, wherein said determining the RID comprises extracting the RID from a predetermined location within the AID.
- 43. (Previously Presented) The computer program product of claim 39, wherein said generating a network resource identifier comprises forming the network resource identifier from first and second address portions, wherein said first address portion comprises a predetermined value, and said second address portion is dependent upon the determined RID.
- 44. (Original) The computer program product of claim 43, wherein said first address portion corresponds to a network domain, and said second address portion corresponds to one or more input parameters for transmission to the network domain.
- 45. (Original) The computer program product of claim 44, wherein said network resource identifier is generated by combining a first fixed address portion representative of a search site with a second variable address portion dependent upon the determined RID, wherein the second variable address portion forms a search string for input to the search site.
- 46. (Previously Presented) The computer program product of claim 39, wherein said generating the network resource identifier from the RID comprises transforming a binary representation of the RID into a non-binary representation.
- 47. (Original) The computer program product of claim 46, wherein said non-binary representation comprises a string representation.

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48. (Previously Presented) The computer program product of claim 39, wherein said generating a network resource identifier comprises using a lookup table that maps RID to network resource identifier.

49. (Previously Presented) The computer program product of claim 48, wherein said generating a network resource identifier comprises:

accessing a local lookup table that maps selected RIDs to corresponding network resource identifiers, and using a mapping from this local lookup table to generate the network resource identifier if the determined RID matches one of the RIDs in the local lookup table; and

if no matching RID in the local lookup table is found, accessing a remote database that maps RIDs to corresponding network resource identifiers, wherein said generated network resource identifier comprises the address of the remote database in combination with the RID to be matched.

- 50. (Original) The computer program product of claim 49, wherein the AID is further processed by operating said local lookup table as a cache of the remote database.
- 51. (Original) The computer program product of claim 39, wherein the response to said request comprises or identifies code for use in decoding the AID of the application.
- 52. (Previously Presented) The computer program product of claim 51, wherein the AID is further processed by installing said code in a terminal to perform said transaction with the application.

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- 53. (Original) The computer program product of claim 39, wherein said network resource identifier represents a fully qualified class name for a class.
- 54. (Original) The computer program product of claim 53, wherein the AID is further processed by examining to see if the class is already loaded, and if so, not transmitting said request.
- 55. (Previously Presented) The computer program product of claim 53, wherein the AID is further processed by accessing the class in accordance with classpath definitions.
- 56. (Original) The computer program product of claim 51, wherein said code is provided in the form of a Java application descriptor file.
- 57. (Original) The computer program product of claim 39, wherein the response to said request comprises a URL denoting a service or facility for use in interacting with the application on the smart card.
- 58. (Original) The computer program product of claim 39, wherein the response to said request comprises or identifies contractual material relating to the application on the smart card.
- 59. (Original) The computer program product of claim 39, wherein said request incorporates the AID for the application.
- 60. (Original) The computer program product of claim 59, wherein the response to the request is dependent upon a proprietary application identifier extension (PIX) portion of the AID.

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61. (Previously Presented) The computer program product of claim 39, wherein an AID is further processed by receiving the AID for the application on the smart card at a terminal during a session with said smart card, wherein said determining, said generating, said transmitting, and said receiving a response are performed by said terminal.

- 62. (Previously Presented) The computer program product of claim 61, wherein there are multiple applications on the smart card, each application having its own respective AID which is received on the terminal from the smart card, and wherein said determining the RID, said generating a network resource identifier from the RID, said transmitting a request to said network resource, and said receiving a response, are performed separately for each received AID.
- 63. (Original) The computer program product of claim 62, wherein the responses to the requests received at the terminal for the multiple applications are used in determining which of said multiple applications on the smart card is to be used in interacting with the terminal.
  - 64. (Cancelled)
  - 65. (Cancelled)
  - 66. (Cancelled)
  - 67. (Cancelled)
  - 68. (Cancelled)